

Jean M. Parry, PhD - Assistant Professor of Biology

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Academic Background

- **Ph.D.**, Cellular and Developmental Biology and Genetics, Rutgers University, Oct 2010.
- **B. Sc.**, Biology, Drexel University, June 2005

Professional Experience

Assistant Professor – *Biology Department, Georgian Court University 2014-Present*

Development and administration of 200 Level Genetics, 400 Level Genomics, 400 Level Developmental Biology, and 400 Level Neurobiology courses

Investigation of genes required for differentiation of neuroblasts from epithelial precursors in the *C. elegans* excretory system.

Post-doc — *Advisor: Dr. M.V. Sundaram, Genetics Dept., University of Pennsylvania. 2010-2014*

Examination of genes required for epithelial junction maintenance and remodeling in the *C. elegans* excretory system.

Teaching Fellow: *National Science Foundation GK-12 Program, Rutgers University. 2007-2008*

Taught sixth grade physical sciences, and eighth grade mathematics at John Adams Middle School in Edison, NJ. Also taught subjects including genetics, geology, physics, and forensic anthropology, to New Jersey students on the Rutgers Science Explorer Bus.

Ph. D. — *Advisor: Dr. A.W. Singson, Genetics Dept, Rutgers University. 2005-2010*

Analysis of genes required for the oocyte to embryo transition after fertilization.

Undergraduate Research — *Advisor: Dr. K. Lacovara, Geology Dept., Drexel University. 2001*

Investigation of a new paleoecological site in the Navesink formation, in Bordentown, New Jersey.

Courses Taught at Georgian Court University

BI121: Biological Unity – an introduction to principles of cell biology

BI204: Biological Continuity and Change – an introduction to principles of classical and molecular genetics, population genetics, and evolution

BI407: Neurobiology - An investigation of the structure and function of the central nervous system and the major sensory systems.

BI422: Advanced Molecular Genetics - A study of concepts in advanced molecular genetics including mapping and sequencing genomes, RNA synthesis and processing, RNA interference, and molecular phylogenetics.

BI490: Developmental Biology – An examination of the principles underlying animal development.

Publications

1. spe-43 is required for sperm activation in *C. elegans*. Krauchunas A.R., Mendez E., Ni J.Z., Druzhinina M., Mulia A, Parry J.P., Gu S.G., Stanfield G.M., Singson A. *Developmental Biology*. 2018. April 15; 436 (2): 75-83
2. Integrity of Narrow Epithelial Tubes in the *C. elegans* Excretory System Requires a Transient Luminal Matrix. Gill H. K., Cohen J.D., Ayala-Figueroa J., Forman-Rubinsky R., Poggioli C., Bickard K., Parry J.M., Pu P., Hall D.H., Sundaram M.V. *PLoS Genetics*. 2016. Aug 2;12(8)
3. A non-cell-autonomous role for Ras signaling in *C. elegans* neuroblast delamination. **Parry JM** and Sundaram MV. *Development*. 2014. 141(22):4279-84
4. Extracellular leucine-rich repeat proteins are required to organize the apical extracellular matrix and maintain epithelial junction integrity in *C. elegans*. Mancuso VP, **Parry JM**, Storer L, Poggioli C, Nguyen KC, Hall DH, Sundaram MV. *Development*. 2012. 139(5):979-90
5. EGG-4 and EGG-5 Link Events of the Oocyte-to-Embryo Transition with Meiotic Progression in *C. elegans*. **Parry JM**, Velarde NV, Lefkovith A, Zegarek MH, Hang JS, Ohm J, Klancer R, Maruyama R, Grant BD, Piano F, Singson A. *Current Biology* 2009 Nov. 3. 19 (20) 1752-1757
6. EGG-3 regulates cell-surface and cortex rearrangements during egg activation in *Caenorhabditis elegans*. Maruyama R, Velarde NV, Klancer R, Gordon S, Kadandale P, **Parry JM**, Hang JS, Rubin J, Stewart-Michaelis A, Schweinsberg P, Grant BD, Piano F, Sugimoto A, Singson A. *Current Biology*. 2007 Sep 18;17(18):1555-60.
7. EGG Molecules Couple the Oocyte-to-Embryo Transition with Cell Cycle Progression. **Parry, JM**. Singson, A. *Cell Cycle in Development*. (In Press). SpringerLink.
8. Genes required for the common miracle of fertilization in *Caenorhabditis elegans*. Singson A, Hang JS, **Parry JM**. *International Journal Developmental Biology*. 2008;52(5-6):647-56.

Awards

- Pfizer PURE Grant July-August 2018
- Pfizer PURE Grant July-August 2016
- ICFNJ Independent Research Grant Sep 2014 – Jan 2015
- National Research Service Award 1F32DK093204, Feb 2012 – Feb 2014
- Training Grant in Developmental Biology 5T32HD007516, May 2011-Jan 2012
- Busch Graduate Fellowship Sep 2009- Aug 2010

- Waksman Institute Travel Award Apr 2009
- NSF GK-12 Fellowship, Sep 2007-Aug 2008
- Drexel University Grant Sep 2001- Jun 2005

University Service

- Co-Chair Internal Research Review Board 2017-Present
- Member Internal Research Review Board 2015-2016
- Academic Advisor, 2014-2015
- Co-chair, Educational Journal Club, 2013
- Organizing committee for the Postdoctoral Developmental Biology Seminar Group, 2011-2013

Selected Meetings

- 19th International *C. elegans* Meeting (2013), UCLA, California (Poster)
- *C. elegans* Development, Cell Biology, and Gene Expression Meeting (2012), University of Madison, Wisconsin (Poster)
- Gordon Research Conference, Cell Contact and Adhesion (2011), Mount Snow, Vermont (Poster)
- Gordon Research Conference, Fertilization and Activation of Development (2009), Holderness School, New Hampshire (Poster).
- 17th International *C. elegans* Meeting (2009), UCLA, California (selected for parallel presentation)

References

Louise Wootton, PhD

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